

AMENDMENTS TO THE CLAIMS

33. (Amended) A phosphorylatable antibody or antigen binding fragment thereof, engineered to include at least one heterologous kinase recognition site located in the hinge region at a position other than a terminus of the antibody ~~and which does not adversely affect the ability of the antibody or antigen binding fragment to bind antigen~~, such that an added phosphate group of a phosphorylated form of the antibody or antigen binding fragment is protected from hydrolysis by intramolecular interactions with other amino acid residues so that at least 80% of all the phosphate groups remain attached after at least 5 days of incubation in vitro of the phosphorylated form in animal serum or buffer.

34. (Canceled) ~~The phosphorylatable antibody of claim 33, wherein the heterologous kinase recognition site is located at the carboxyl terminus of the antibody.~~

35. (Previously Presented) The phosphorylatable antibody of claim 33, wherein at least 95% of all the phosphate groups remain attached after at least 5 days of incubation of the phosphorylated form in animal serum or buffer.

36. (Previously Presented) The phosphorylatable antibody of claim 35, wherein at least 99% of all the phosphate groups remain attached after at least 5 days of incubation of the phosphorylated form in animal serum or buffer.

37. (Previously Presented) The phosphorylatable antibody of claim 33, wherein the kinase recognition site is a recognition site for kinase which phosphorylates a serine, threonine or tyrosine residue.

38. (Previously Presented) The phosphorylatable antibody of claim 33, wherein the kinase recognition site is a recognition site for a cyclic AMP dependent kinase, a cyclic GMP dependent kinase, or a cyclic nucleotide independent kinase

39. (Previously Presented) The phosphorylatable antibody of claim 33, wherein the kinase recognition site is a recognition site for casein kinase I, casein kinase II, Src tyrosine kinase, mitogen-activated S6 kinase or rhodopsin kinase.

40. (Previously Presented) The phosphorylatable antibody of claim 33, wherein the antibody is a monoclonal antibody.

41. (Amended) The phosphorylatable antibody of claim ~~33~~ 40, wherein the ~~monoclonal~~ antibody is a humanized antibody, or chimeric antibody, ~~or hybrid antibody~~.

42. (Amended) The phosphorylatable antibody of claim ~~33~~ 40, wherein the ~~monoclonal~~ ~~antibody is~~ antigen binding fragment comprises a Fab fragment, or Fab' fragment ~~or an Fc fragment~~.